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WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,
and
IDAHO STATE RECLAMATION ENGINEER

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF
MAY 1, 1967

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data or reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Listed below are water supply outlook reports based on Federal-State-Private Cooperative snow surveys. Those published by the Soil Conservation Service may be obtained from Soil Conservation Service, Room 507, Federal Building, 701 N. W. Glisan, Portland, Oregon 97209.

PUBLISHED BY SOIL CONSERVATION SERVICE

D. A. WILLIAMS, Administrator

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 507, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85205
Colorado (N. Mex.)	12417 Federal Building, Denver, Colorado 80202
Idaho	P. O. Box 38, Boise, Idaho 83701
Montana	P. O. Box 855, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4001 Federal Building, Salt Lake City, Utah 84111
Washington	840 Bon Marche Bldg., Spokane, Washington 99206
Wyoming	P. O. Box 340, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
IDAHO

Report prepared by

MORLAN W. NELSON Snow Survey Supervisor

and

J. ALDEN WILSON Asst. Snow Survey Supervisor

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
P.O. BOX 38, BOISE, IDAHO 83701

Issued by

LEE T. MORGAN
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

R. KEITH HIGGINSON
STATE RECLAMATION ENGINEER
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

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WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY FOR MAY 1, 1967

Snowfall during the month of April was unusually heavy. Water content of the snow pack continued to increase on practically all snow courses when it would ordinarily be melting. These storms were welcome in the areas south of the Snake River facing drought conditions, but have added to the problems inherent in the record breaking snow pack on the Kootenai River in northern Idaho and Canada. Temperatures during the month were also at record lows throughout the state which reduced streamflow far below normal. This poses a special problem on rivers with a high water potential because more water will now have to come down in considerably less time.

The record breaking snow pack on the Kootenai River is interpreted by the River Forecast Center of the Weather Bureau to be a flood stage of between 34 and 37 feet at Bonners Ferry. This is among the highest years of record. Their interpretation is that a flood potential also exists on the Big Lost, Little Wood, Big Wood, and Little Salmon Rivers. Automatic radio reports from the mountains throughout Idaho show that the snow pack is still increasing. The cool temperatures during April have kept the snow pack from ripening which delays the snow-melt considerably more even after warm, normal conditions return.

Soil moisture conditions at high elevations have not changed because the major snow-melt of the season has not yet started. Unusually dry soil remains beneath the heavy snow pack. However, the unusual snow-fall during April has more than made up for the deficiency of moisture in the soil profile. The forecasts have been adjusted for dry soil moisture conditions. The valley and foothill mountain snow cover has melted but did not increase streamflow normally because of the dry soil and cold weather.

Reservoir-stored water throughout the state is generally well below normal. On many rivers, stored water was used for the entire month of April because irrigation demands were up and inflow to the reservoirs was below this demand.

Valley precipitation was variable throughout Idaho but in general was close to normal.

The major snow melt for 1967, which has not yet started, may result in problems of high water on some rivers north of the Snake River and below normal streamflow south of the Snake River.

RESERVOIR STORAGE (1,000 Ac. Ft.)

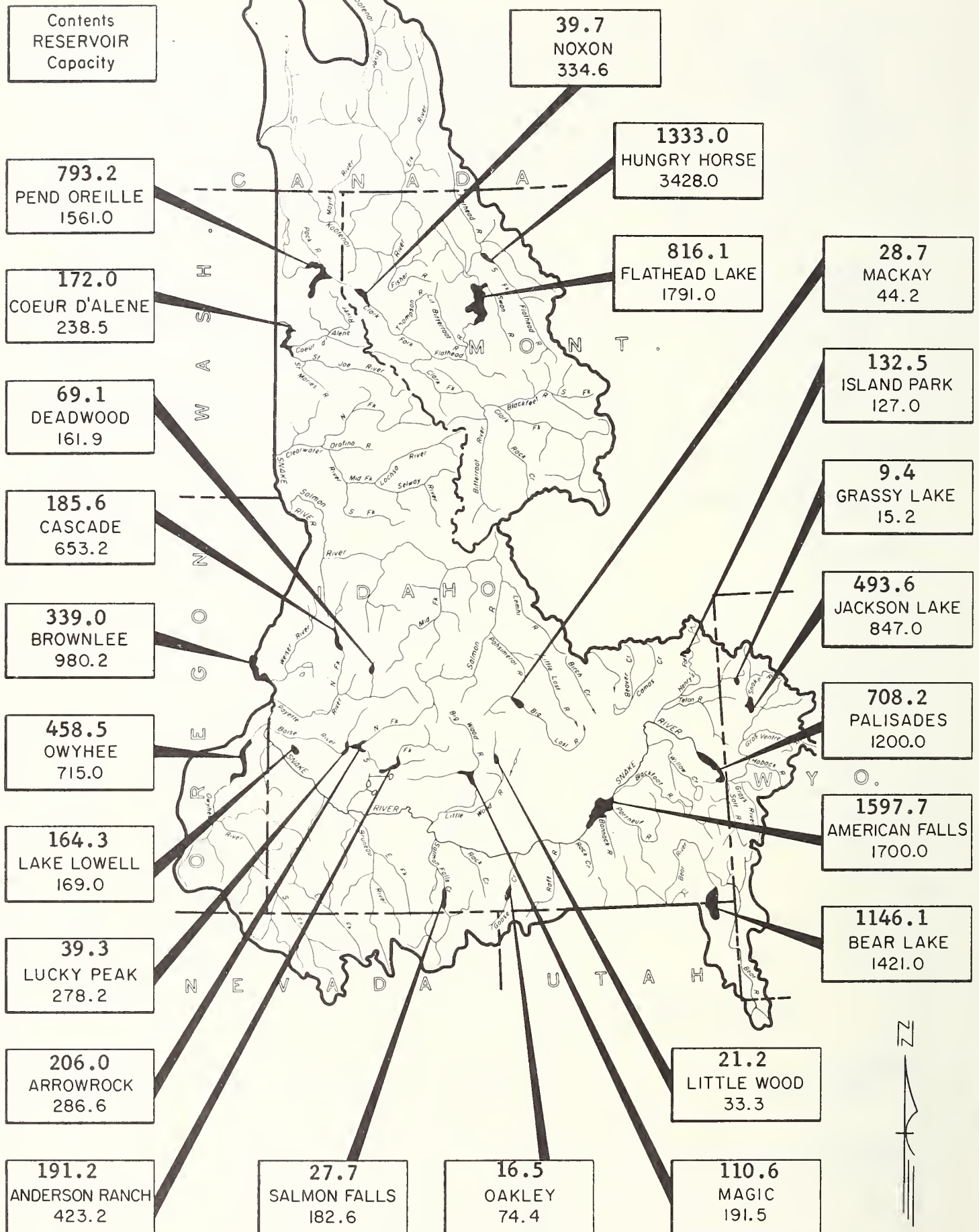
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1948 - 62 AVERAGE
<u>UPPER COLUMBIA BASIN</u>				
<u>Clark Fork - Pend Oreille</u>				
Hungry Horse	3428.0	1333.0	2437.0	2097.0*
Flathead	1791.0	816.1	818.5	968.0
Pend Oreille	1561.0	793.2	955.2	860.1
Noxon	334.6	39.7	95.0	--
<u>Spokane</u>				
Coeur d'Alene	238.5	172.0	186.2	347.8
<u>SNAKE BASIN</u>				
<u>Snake</u>				
Jackson Lake	847.0	493.6	673.8	422.9
Palisades	1200.0	708.2	1142.2	--
American Falls	1700.0	1597.7	1519.2	1625.1
Island Park	127.0	132.5	133.0	127.4
Grassy Lake	15.2	9.4	9.5	12.4
Brownlee	980.2	339.0	902.8	--
<u>Goose-Trapper Creeks</u>				
Oakley	74.4	16.5	28.4	25.5
<u>Salmon Falls Creek</u>				
Salmon Falls	182.6	27.7	62.6	47.4
<u>Big Lost</u>				
Mackay	44.2	28.7	43.3	33.3
<u>Big Wood</u>				
Magic	191.5	110.6	191.5	171.1
<u>Little Wood</u>				
Little Wood	30.0	21.2	30.1	18.2*
<u>Fish Creek</u>				
Carey Valley	14.4	14.0	14.0	--
<u>Boise</u>				
Anderson Ranch	423.2	191.2	398.7	239.7
Arrowrock	286.6	206.0	258.6	201.7
Lucky Peak	278.2	39.3	232.4	198.4*
Lake Lowell (Deer Flat)	169.0	164.3	126.2	157.9
<u>Owyhee</u>				
Owyhee	715.0	458.5	631.9	553.6
<u>Payette</u>				
Cascade	653.2	185.6	495.5	--
Deadwood	161.9	69.1	125.0	85.0
<u>GREAT BASIN</u>				
<u>Bear</u>				
Bear Lake	1421.0	1146.1	1239.0	983.5
*Period of Record.				

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MAY 1, 1967

50 0 50 100 150
SCALE IN MILES



PROSPECTIVE STREAMFLOW

Based on Snow Surveys made on approximately

MAY 1, 1967

IDAHO

20 0 20 40 60 80 100 120
SCALE IN MILES

LEGEND



Less than 80 percent of average

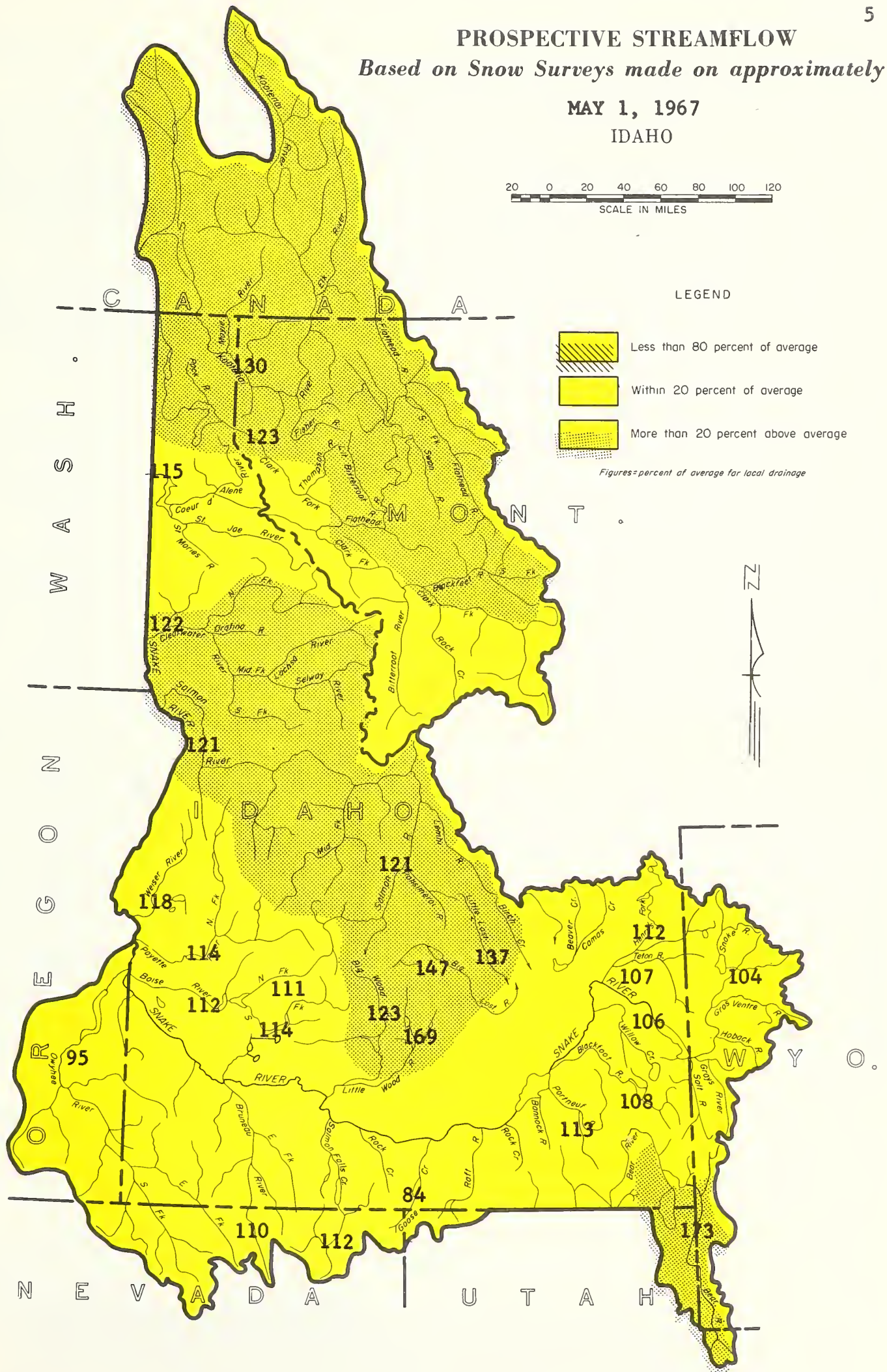


Within 20 percent of average



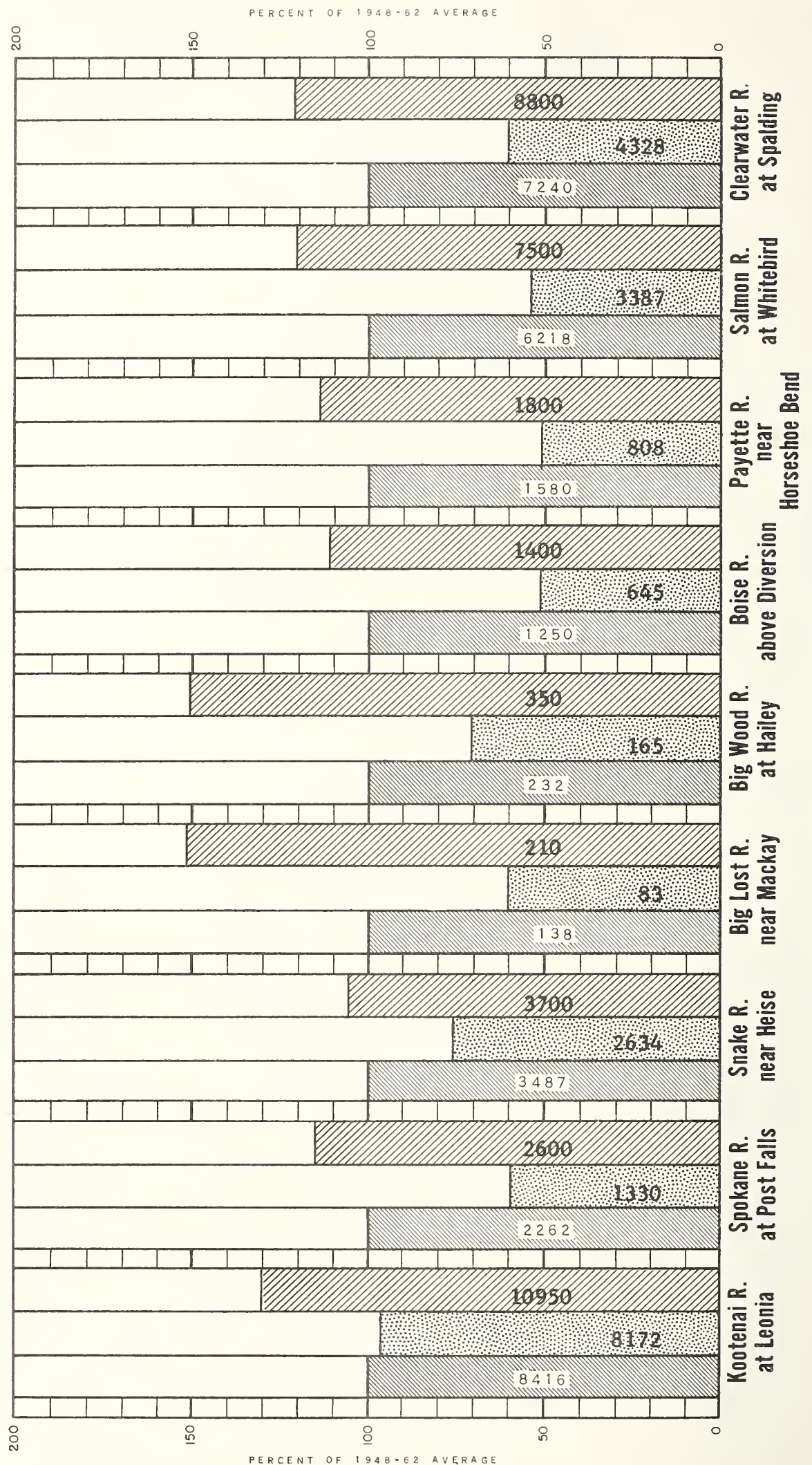
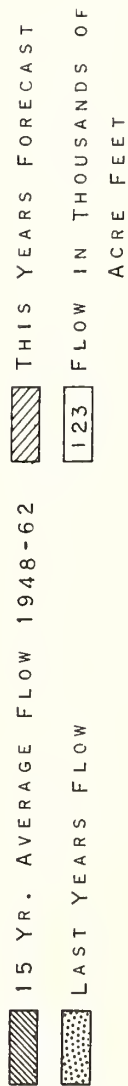
More than 20 percent above average

Figures=percent of average for local drainage



STREAMFLOW FORECASTS (May through September period)

Based on Snow Surveys made on approximately



STREAMFLOW FORECASTS^c (1,000 Ac. Ft.)

STREAM and/or FORECAST POINT		FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	1948-1962 AVERAGE	THIS YEAR AS PERCENT OF AVERAGE
<u>UPPER COLUMBIA BASIN</u>						
<u>KOOTENAI RIVER</u>						
Leonia	(at)	10950	May-Sep	8172	8416	130
		9450	May-Jul	7152	7268	130
		7400	May-Jun	5556	5690	130
<u>PEND OREILLE RIVER</u>						
<u>Clark Fork River</u>						
Whitehorse Rapids	(at)	15460	May-Sep	9516	12580	123
		14000	May-Jul	8558	11369	123
		11750	May-Jun	7132	9499	123
<u>Priest River</u>						
Priest River 1/	(nr)	820	May-Jul	574	745	110
<u>SPOKANE RIVER</u>						
Post Falls 2/	(at)	2600	May-Sep	1330	2262	115
<u>Coeur d'Alene River</u>						
Cataldo	(nr)	990	May-Sep	536	886	112
		925	May-Jul	492	825	112
<u>St. Joe River</u>						
Calder	(at)	1230	May-Sep	750	1099	112
		1150	May-Jul	694	1029	112
<u>SNAKE RIVER BASIN</u>						
<u>SNAKE RIVER - MAIN STEM</u>						
Moran 3/	(at)	900	Apr-Sep	--	865	104
Heise 4/	(nr)	3700	May-Sep	2634	3487	106
Blackfoot 5/	(nr)	3820	May-Jul	2488	3602	106
Weiser	(at)	4250	May-Sep	3290	5332	80
<u>Henrys Fork</u>						
Ashton 6/	(nr)	570	May-Sep	443	508	112
Rexburg 7/	(nr)	1225	May-Sep	822	1113	110
<u>Teton River</u>						
St. Anthony	(nr)	380	May-Sep	274	355	107
<u>Blackfoot River</u>						
Blackfoot						
Reservoir Inflow		110	Apr-Sep	--	102	108

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake. 2/ Observed flow corrected for storage in Coeur d'Alene Lake and diversions by Spokane Valley Farms Company and Rathdrum Prairie canals. 3/ Corrected for storage in Jackson Lake. 4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.

STREAMFLOW FORECASTS^c (1,000 Ac. Ft.)

STREAM and/or FORECAST POINT		FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	1948-1962 AVERAGE	THIS YEAR AS PERCENT OF AVERAGE
<u>Portneuf River</u>						
Topaz	(at)	70	May-Sep	51	62	113
<u>Oakley Reservoir Inflow</u>		15	May-Sep	5.5	17.9	84
<u>Salmon Falls Creek</u>						
San Jacinto	(nr)	55	May-Sep	16	49	112
		52	May-Jul	13	46	113
<u>Bruneau River</u>						
Hot Springs	(nr)	165	May-Sep	47	150	110
<u>Little Lost River</u>						
Howe	(nr)	40	May-Sep	26	29	137
<u>Big Lost River</u>						
Howell Ranch	(at)	245	May-Sep	93	170	144
		175	May-Jun	68	120	146
Mackay <u>1/</u>	(nr)	210	May-Sep	83	143	147
<u>Big Wood River</u>						
Hailey <u>2/</u>	(at)	350	May-Sep	165	284	123
Magic Reservoir						
Inflow <u>3/</u>		200	May-Jul	53	162	123
<u>Little Wood River</u>						
High Five Creek	(ab)	100	May-Sep	34	59	169
<u>Boise River</u>						
Twin Springs	(nr)	680	May-Sep	309	613	111
		620	May-Jul	277	561	111
Boise <u>4/</u>	(nr)	1400	May-Sep	645	1250	112
<u>South Fork</u>						
Anderson Dam <u>5/</u>	(at)	550	May-Sep	248	483	114
<u>Owyhee River</u>						
Gold Cr., Nev. <u>6/</u>	(nr)	8	May-Jul	6	10	80
Owyhee, Nev. <u>6/</u>	(nr)	34	May-Jul	21	42	81
Lake Owyhee		175	May-Sep	--	184	95
net inflow <u>7/</u>		152	May-Jul	--	168	90
<u>Jordan Creek</u>						
Lone Tree Creek	(ab)	100	May-Jul	--	98	102

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir and diversion in Sharp Ditch. 2/ Combined discharge of Big Wood River and Big Wood Slough corrected for diversions. 3/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 4/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 5/ Corrected for storage in Anderson Ranch Reservoir. 6/ Corrected for storage in Wild Horse Reservoir. 7/ From U.S.B.R. records of inflow.

STREAMFLOW FORECASTS^c (1,000 Ac. Ft.)

STREAM and/or FORECAST POINT			FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	1948-1962 AVERAGE	THIS YEAR AS PERCENT OF AVERAGE
<u>Payette River</u>							
Horseshoe Bend <u>1/</u>	(nr)	1800	May-Sep	808	1580	114	
Banks <u>2/</u>	(nr)	960	May-Jul	452	846	114	
<u>North Fork</u>							
Cascade <u>3/</u>	(at)	550	May-Sep	243	483	114	
Banks <u>3/</u>	(nr)	690	May-Sep	285	604	114	
		650	May-Jul	275	568	114	
<u>Weiser River</u>							
Weiser ab. Crane Creek <u>4/</u>		330	May-Sep	110	280	118	
<u>Salmon River</u>							
Whitebird	(at)	7500	May-Sep	3387	6218	121	
Challis	(nr)	995	May-Sep	439	822	121	
		860	May-Jul	368	710	121	
<u>Clearwater River</u>							
Spalding	(at)	8800	May-Sep	4328	7240	122	
<u>GREAT BASIN</u>							
<u>BEAR RIVER</u>							
Harer	(at)	350	May-Sep	119	202	173	
<u>Montpelier Creek</u>							
Montpelier	(nr)	11	May-Sep	--	9.4	117	
<u>Cub River</u>							
Preston	(nr)	50	May-Sep	--	44*	114	

*Partially estimated.

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4. Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth.












VALLEY PRECIPITATION 1/
 Division Averages and Departures
 In Inches

DRAINAGE DIVISIONS	Winter		April 1967	
	Nov. 1966-Mar. 1967			
	Observed	Departure <u>2/</u>	Observed	Departure <u>2/</u>
Kootenai, Canada & U. S.	16.79	+2.70	1.10	-0.51
Flathead	12.04	+1.94	0.99	-0.72
Clark Fork	4.51	-0.15	1.60	+0.71
Pend Oreille-Spokane	21.01	+2.08	1.88	-0.33
Upper Snake	10.74	-0.01	2.25	+0.77
Snake River Plain	4.91	+0.42	1.72	+1.02
Salmon-Payette-Boise	11.82	+0.47	2.00	+0.55
Clearwater	14.24	+0.25	2.90	+0.43
Southeastern Oregon	5.99	+0.60	1.51	+0.82

1/ Preliminary analysis by U. S. Weather Bureau from data furnished by Meterological Service of Canada & U. S. Weather Bureau.

2/ Departure from 15-year (1948-62) drainage division average.

[illegible]

- | | |
|---|---------------------------------|
|  | Watershed Boundary |
|  | Soil Conservation District Bdry |
|  | County Boundary |
|  | Farecast Point |
|  | Snow Course |
|  | Aerial Snow Depth Goge |
|  | Soil Moisture Station |
|  | Snow Pressure Pillow |
|  | Temperature Gage |
|  | Precipitation Goge |
|  | Radio Telemetry |



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR ANO	LONG.	

UPPER COLUMBIA BASIN

KOOTENAI RIVER

16A1	I	Smith Creek	29	64N	3W	4800
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PEND OREILLE - PRIEST RIVER

16A2	I	Benton Meadow	27	58N	4W	2344
16A3M	I	Benton Spring	30	58N	3W	4900
16A6	I	Schweitzer Bowl	20	58N	2W	4500
16A5	I	Schweitzer Ridge	19	58N	2W	6100

SPOKANE RIVER

15B8	I	Above Burke	11	48N	5E	4100
15B7	I	Above Roland	35	47N	6E	4350
15B6	I	Below Roland	34	47N	6E	3770
16B2	I	Copper Ridge	6 & 7	50N	1W	4800
16B3M	I	Fourth of July Summit	6	49N	1W	3100
15B13A	I	Granite Peak	3	42N	8E	6000
16B5A	I	Kellogg Peak	19	48N	3E	5560
15B2M	I	Lookout	4	47N	6E	5250
16B1	I	Lower Sands Creek	32	51N	1W	3400
15B4A	I	Medicine Ridge	24	43N	10E	6150
16A4A	I	Mosquito Ridge	5	54N	2E	5110
15B12A	I	Outlaw Creek	19	44N	5E	3750
15B5A	I	Roland Summit	26	47N	6E	5200
16C1	I	Sherwin	28 & 33	42N	1E	3200
15B9A	I	Sunset	28	49N	5E	5600

LOWER SNAKE BASIN

PALOUSE RIVER

16C6	I	Crumarine Creek	24	40N	5W	3500
16C3	I	East Twin	13	40N	5W	4000
16C5	I	Howard Creek	14	40N	5W	3500
16C2	I	Moscow Mountain	18	40N	4W	4800
16C4P	I	West Twin	14	40N	5W	4200

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7 m	SOIL MOISTURE STATION ONLY.
10J7 a	AERIAL MARKER ONLY.
10J7 p	STORAGE PRECIPITATION GAGE ONLY.

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR ANO	LONG.	

CLEARWATER RIVER

16C11	I	Above Greer	14	35N	2E	1240
15D7a	I	Anderson Butte	34	30N	9E	6800
15D8a	I	Anderson Ridge	35	30N	9E	5400
15D9p	I	Blackhawk	31	29N	10E	6080
16C14m	I	Brown	11	35N	3E	3100
15D5APM	I	Buck Meadows	26	31N	8E	5600
15C3A	I	Cayuse Airstrip	4	38N	11E	3700
15C7	I	Coolwater Mountain	32	33N	8E	6200
15D10a	I	Copper Butte	35	31N	10E	6000
15C9A	I	Crater Meadows	2	37N	9E	6100
14C10	I	Crooked Fork	27	37N	14E	3800
15D11a	I	Disgrace Butte	26	30N	10E	6600
16C15A	I	Elk Butte	6	40N	3E	5550
15D12p	I	Elk City Rgr. Sta.	23	29N	8E	4000
15D13ap	I	Elk Mountain	34	30N	11E	6900
15C11a	I	Falls Point	10	31N	9E	4600
15C12p	I	Fenn Ranger Station	23	32N	7E	1580
15C2AP	I	Fish Lake Airstrip	35	35N	11E	5000
15C8m	I	Fohl	16	36N	5E	3450
16C9	I	Forest	1	32N	3W	4550
15B3A	I	Forty-nine Meadows	6	43N	5E	5000
14C9A	I	Goat Lake	4	38N	13E	6600
15D14p	I	Green Mountain	15	28N	11E	7000
16C13	I	Greer Summit	13	35N	2E	3000
15C6AP	I	Hemlock Butte	7	36N	7E	5500
15D21a	I	Horse Point	4	30N	9E	5700
15D22ap	I	Indian Hill	30	31N	10E	6100
14D3	I	Kit Carson Pasture	4	27N	16E	5020
14C5M	I	Lolo Pass	16	38N	15E	5230
15B14A	I	Lost Lake	16	43N	4E	6000
15D15p	I	Lower Horse Creek	28	31N	9E	4100
16C8	I	McCann	25	33N	3W	4300
15D16p	I	Meadow Creek Guard Station	5	29N	10E	2955
15D17a	I	Meadow Creek Lookout	25	29N	11E	7000
16C12M	I	Midway	14	35N	2E	2200
15D18P	I	Mill Site	22	28N	11E	6700
15D6AP	I	Mountain Meadows	9	27N	10E	6300
14D1	M	Nez Perce Pass	25	1S	24W	6575
15D4	I	Orogrande Mountain	24	27N	6E	7800
15C5	I	Pierce Ranger Station	2	36N	5E	3170
14C6	I	Powell Ranger Station	33	37N	14E	4230
15D19p	I	Red River Ranger Station	4	27N	9E	4340
15D20a	I	Sable Hill	14	29N	10E	6000
14C4	I	Savage Pass	18	36N	15E	6600
15C4A	I	Shanghai Summit	7	37N	6E	4600
15C13p	I	Slim's Camp	11	31N	9E	1850
16C10	I	Sweeney	1	32N	3W	4435

SALMON RIVER

13E19MA	I	Above Gilmore	13	13N	26E	8200
13E21A	I	Aspen-Hall Pass	6	16N	28E	8110
15E2	I	Big Creek Summit	24	15N	5E	6600
13E8a	I	Borah	21	10N	23E	8250
16D6	I	Brundage Mountain	7	19N	3E	7600
16D2	I	Chapman Creek	16	29N	2E	4215
13E17A	I	Copes Camp	36	18N	22E	7500
13E23a	I	Doublespring Pass	3	10N	22E	8400
13D17a	I	Gertson Creek	22	22N	23E	8050
13D2	M	Gibbons Pass	4	2S	19W	7100
13D9	M	Gold Stonw	11	8S	16W	8100
13E20Q	I	HallCreek	1	16N	27E	7560
16D3	I	Johns Creek	9	19N	2E	3805
13E22ap	I	Leatherman Pass	20	9N	23E	9800
13E23	M	Lemhi Ridge	4	10S	15W	8100
13E18MA	I	Meadow Lake	24	13N	26E	9100
14E1MAP	I	Mill Creek Summit	8	13N	17E	8870
13D16	I	Moose Creek	22 & 26	27N	21E	6200
14E4	I	Morgan Creek	32	18N	19E	7580
14E2	I	Redfish Lake	3	9N	13E	6600
13E16A	I	Schwartz Lake	34	18N	22E	8500
13E2	M	Trail Creek	15	10S	15W	7090
14E3a	I	Twin Peaks	28	15N	17E	10300
14F4AP	I	Vienna Mine	32	6N	14E	8900
16D5	I	Whitebird Summit	17	29N	2E	4390
14D4	I	Williams Creek	34	21N	20E	7800

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b

UPPER COLUMBIA RIVER BASINKOOTENAI RIVER

Smith Creek	16A1	4800	4/25	137	61.9	43.1	47.5*
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PEND OREILLE - PRIEST RIVER

Benton Meadow	16A2	2344	4/28	0	0.0	0.0	0.0*
Benton Spring	16A3	4900	4/28	59	22.9	12.0	18.2
Schweitzer Bowl	16A6	4500	4/28	92	37.5	22.2	--
Schweitzer Ridge	16A5	6100	4/28	150	61.0	47.0	--

SPOKANE RIVER

Copper Ridge	16B2	4800	5/1	76	34.0	18.7	29.3
#Forty-nine Meadows	15B3	5000	5/3	75	32.4	22.8	32.3*
Fourth of July Summit	16B3	3100	5/1	0	0.0	0.0	--
Granite Peak	15B13	6000	5/3	139	55.4	45.0	--
Lookout	15B2	5250	5/1	106	42.4	30.0	36.4
#Lost Lake	15B14	6000	5/3	156	65.8	49.8	--
Lower Sands Creek	16B1	3400	5/1	39	16.6	13.4	14.2*
Medicine Ridge	15B4	6150	5/3	143	57.4	41.8	--
Outlaw Creek	15B12	3750	5/3	34	13.2	8.2	--

LOWER SNAKE RIVER BASINPALOUSE RIVER

Crumarine Creek	16C6	3500	5/1	T	T	0.0	0.0*
East Twin	16C3	4000	5/1	T	T	0.0	0.0*
Howard Creek	16C5	3500	5/1	T	T	0.0	0.0*
Moscow Mountain	16C2	4800	5/1	42	14.8	10.6	12.0*
Upper Moscow Mtn.	16C7	4950	5/4	32	14.0	--	--
West Twin	16C4	4200	5/1	T	T	0.0	0.1*

CLEARWATER RIVER

Above Greer	16C11	1240	4/27	0	0.0	0.0	--
Buck Meadows	15D5	5600	4/25	85	36.4	19.6	--
Buck Meadows	15D5	5600	5/1	91	37.0	19.6	--
Cayuse Airstrip	15C3	3700	5/3	0	0.0	0.0	1.2*
Coolwater Mountain	15C7	6200	4/26	93	37.2	24.5	--
Coolwater Mountain(R)	15C7	6200	4/30	--	41.1	30.0	--
Copper Butte (A)	15D10	6000	5/2	103	39.1	--	--
Crater Meadows	15C9	6100	4/25	115	50.6	37.8	--
Disgrace Butte (A)	15D11	6600	5/2	86	31.0	--	--
Elk Butte	16C15	5550	4/27	102	42.4	25.6	--
Elk Mountain (A)	15D13	6900	5/1	120	43.2	--	--

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b
Falls Point (A)	15C11	4600	5/2	36	15.1	--	--
Fish Lake Airstrip	15C2	5000	4/26	112	46.8	34.2	45.4*
Forty-nine Meadows	15B3	5000	5/3	75	32.4	22.8	32.3*
Goat Lake	14C9	6600	5/3	141	56.4	42.8	--
#Granite Peak	15B13	6000	5/3	139	55.4	45.0	--
Greer Summit	16C13	3000	4/27	0	0.0	0.0	--
Hemlock Butte	16C6	5500	4/25	123	52.4	44.5	--
Hemlock Butte (R)	16C6	5500	4/30	--	64.8	40.6	--
Hemlock Butte (SP)	16C6	5500	4/30	--	64.8	--	--
#Hoodoo Creek Mont.	15C1	5900	5/1	136	57.6	41.2	50.2*
#Hoodoo Creek (SP)Mont.	15C8	6000	4/30	--	57.9	--	--
Lolo Pass	14C5	5230	4/27	81	37.0	20.3	31.8*
Lost Lake	15B14	6000	5/3	156	65.8	49.8	--
#Medicine Ridge	15B4	6150	5/3	143	57.4	41.8	--
Midway	16C12	2200	4/27	0	0.0	0.0	--
Mill Site (SP)	15D18	6700	5/1	101	39.7	--	--
Mountain Meadows	15D6	6300	4/25	75	31.8	17.3	--
Mountain Meadows	15D6	6300	5/1	81	29.8	17.3	--
#Nez Perce Pass Mont.	14D1	6570	4/26	51	20.9	6.0	13.3
Orogrande Mountain	15D4	7800	4/25	124	48.2	37.8	--
Orogrande Mountain (R)	15D4	7800	4/30	--	48.9	--	--
Pierce Ranger Station	15C5	3170	4/27	2	0.7	0.3	1.6*
Powell Ranger Station	14C6	4230	4/27	0	0.0	0.0	--
Sable Hill (A)	15D20	6000	5/2	60	22.8	--	--
Savage Pass	14C4	6600	4/27	82	33.2	21.2	27.7*
Shanghai Summit	15C4	4600	4/25	64	27.4	10.1	25.2*

SALMON RIVER

Big Creek Summit	15E2	6600	4/28	118	44.6	29.2	36.8*
Borah (A)	13E8	8250	5/2	36	12.8	0.0	--
#Boulder Creek	16D1	5500	4/26	52	20.6	11.4	--
Brundage Mountain	16D6	7600	4/28	166	67.8	40.5	--
Chapman Creek	16D2	4215	4/27	4	1.3	0.0	0.3*
#Deadwood Summit	15E4	7000	4/28	140	59.4	35.0	48.5*
Doublespring Pass (A)	13E25	8400	5/2	48	17.1	--	--
#Galena Summit	14F12	8795	4/29	90	32.8	15.6	23.3*
#Gibbons Pass Mont.	13D2	7100	4/28	71	27.2	12.8	23.1
Johns Creek	16D3	3805	4/27	0	0.0	0.0	0.0*
Leatherman Pass (A)	13E24	9800	5/2	108	39.3	--	--
Mill Creek Summit	14E1	8870	5/1	88	32.0	14.1	--
Moose Creek	13D16	6200	4/28	54	20.0	--	13.0*
Morgan Creek	14E4	7580	5/2	55	19.6	2.8	--
#Rock Flat Summit	16E1	5200	4/28	64	22.5	12.1	14.9*
#Squaw Flat (A)	16E5	6230	5/1	86	30.3	19.0	--
#Squaw Meadow	15D2	5800	5/1	112	44.8	29.2	37.9*
Twin Peaks (A)	14E3	10300	5/2	108	39.3	15.8	--
Vienna Mine (A)	14F4	8900	5/1	105	41.0	17.6	38.3*
Whitebird Summit	16D5	4390	4/27	8	3.0	0.0	0.6*

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
						LAST YEAR	AVERAGE ^b

Lemhi River

Above Gilmore (A)	13E19	8200	5/2	66	23.5	5.8	--
Aspen-Hall Pass (A)	13E21	8110	5/2	63	22.4	7.1	--
Copes Camp (A)	13E17	7500	5/2	45	16.0	2.4	--
Gertson Creek (A)	13D17	8050	5/1	48	17.1	0.0	--
Hall Creek (A)	13E20	7560	5/2	37	13.2	0.0	--
Meadow Lake (A)	13E18	9100	5/2	93	33.8	12.6	--
Schwartz Lake (A)	13E16	8500	5/2	71	25.8	8.2	--

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
<u>SPOKANE RIVER</u>							
Fourth of July Summit	3100	48	11.6	5/1	10.2	10.0	10.3
Lookout	5250	48	11.0	5/1	8.3	8.5	8.7
<u>CLEARWATER RIVER</u>							
Brown	3100	36	6.7	4/27	5.6	5.5	5.6
Fohl	3450	48	13.3	4/27	9.6	9.8	10.4
Midway	2200	36	6.1	4/27	5.1	4.9	--
<u>SALMON RIVER</u>							
Mill Creek Summit	8870	48	8.4	5/1	3.0	4.8*	3.1
<u>Lemhi River</u>							
Above Gilmore	8200	60	5.4	3/27	1.8*	2.8*	2.3*
Meadow Lake	9100	48	4.4	3/27	1.6*	1.9*	2.0*

* April 1 measurement.

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b

MIDDLE SNAKE RIVER BASIN - NORTHSIDELITTLE LOST RIVER

Fairview Guard Sta.	13E5	6750	5/1	T	T	0.0	--
Lost Garfield	13E3	6600	5/1	0	0.0	0.0	--
Moonshine	13E6	7450	5/1	52	17.6	1.4	--
Sawmill Canyon	13E4	6900	5/1	29	10.2	0.0	--
Wet Creek Summit	13E7	7600	4/27	65	22.8	--	--

BIG LOST RIVER

Cherry Creek Pass (A)	13F13	8900	5/1	37	13.0	--	--
Copper Basin (A)	13F2	7600	5/1	74	26.0	--	--
#Doublespring Pass (A)	13E25	8400	5/2	48	17.1	--	--
Dry Fork (A)	13F20	7340	5/1	64	22.5	--	--
#Leatherman Pass (A)	13E24	9800	5/2	108	39.3	--	--
Lost-Wood Divide (A)	14F3	7900	5/1	99	34.7	--	--
Mammoth Canyon (A)	13F17	8300	5/1	35	12.3	--	--
North Fork Meadow (A)	14F15	8150	5/1	65	22.8	--	--
Sage Creek (A)	14E5	7800	5/2	48	17.1	--	--
Slickrock (A)	13F14	8640	5/1	98	34.4	--	--
Stickney Mill (A)	14F2	7500	5/1	46	16.1	--	--
White Knob	13F1	7700	4/27	60	18.2	--	6.9*

FISH CREEK

#Dry Fork (A)	13F20	7340	5/1	64	22.5	--	--
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LITTLE WOOD RIVER

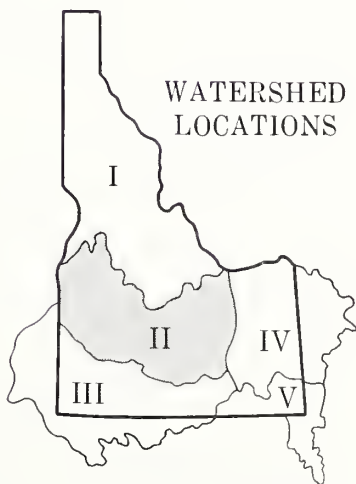
Garfield Rgr. Sta.	13F4	6554	4/28	22	6.8	0.0	0.5*
Muldoon	13F5	6300	4/28	3	1.0	0.0	0.0*
Porcupine (A)	14F14	8350	5/1	76	27.8	4.3	--
Swede Peak	13F9	7500	4/27	70	25.6	10.6	12.3*

BIG WOOD RIVER

#Couch Summit	14F10	6950	4/28	64	24.6	4.8	13.4*
Dollarhide Summit (A)	14F8	8620	5/1	92	33.5	6.1	27.6*
Galena	14F1	7300	4/29	65	25.6	5.7	13.1*
Galena Summit	14F12	8795	4/29	90	32.8	15.6	23.3*
Graham Ranch	14F5	6200	5/1	39	14.9	1.6	--
#Lost-Wood Divide (A)	14F3	7900	5/1	99	34.7	--	--
Mount Baldy	14F9	9000	5/3	90	31.1	16.1	21.2*
#Porcupine (A)	14F14	8350	5/1	76	27.8	4.3	--
Soldier Rgr. Sta.	14F11	6100	4/28	0	0.0	0.0	--
#Vienna Mine (A)	14F4	8900	5/1	105	41.0	17.6	38.3*

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

MIDDLE SNAKE RIVER BASIN NORTHSIDE



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- ▲ Forecast Point
- Snow Course
- † Aerial Snow Depth Gage
- ▶ Soil Moisture Station
- Snow Pressure
- Temperature Gage
- ⌋ Precipitation Gage
- ⚡ Radio Telemetry

INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR ANO	LONG.	

MIDDLE SNAKE RIVER BASIN NORTHSIDE

LITTLE LOST RIVER

13E5M	I	Fairview Guard Station	27	12N	26E	6750
13E3	I	Lost-Garfield	3	11N	26E	6600
13E6	I	Moonshine	31	13N	26E	7450
13E4	I	Sawmill Canyon	17	12N	26E	6900
13E7MAP	I	Wet Creek Summit	15	8N	25E	7600

BIG LOST RIVER

13F18p	I	Antelope Pass	7	5N	23E	8800
13F3	I	Bear Canyon	26	5N	21E	8600
13F13a	I	Cherry Creek Pass	7	5N	23E	8900
13F2A	I	Copper Basin	24	6N	21E	8000
13F19p	I	Corral Creek Summit	25	7N	22E	8550
13F20ap	I	Dry Fork	23	3N	23E	7340
13F11	I	Iron Bog	23	4N	22E	7650
13F12	I	Leadbelt	34	4N	23E	6800
14F3A	I	Lost Wood Divide	19	6N	19E	7900
13F17ap	I	Mammoth Canyon	14	6N	23E	8300
14F15a	I	North Fork Meadows	20	7N	18E	8150
14F6p	I	Park Creek	18	6N	19E	7685
14E5ap	I	Sage Creek	12	9N	20E	7800
13F14ap	I	Slickrock	17	4N	22E	8640
14F2A	I	Stickney Mill	9	6N	19E	7500
13F15a	I	Twin Rocks	22	4N	22E	8100
13F1	I	White Knobs	25	7N	23E	7700

BIG WOOD RIVER

15F9a	I	Camas Creek Divide	11	2S	9E	5720
14F8AP	I	Dollarhide Summit	16	3N	15E	8620
14F1M	I	Galena	3	6N	15E	7300
14F12MP	I	Galena Summit	33	7N	15E	8795
14F5	I	Graham Ranch	10	5N	17E	6200
14F7	I	Mascot Mine	8	4N	20E	7900
14F9	I	Mount Baldy	26	4N	17E	9000
14F11	I	Soldier Ranger Station	19	2N	14E	6100

LITTLE WOOD RIVER

13F4M	I	Garfield Ranger Station	11	3N	21E	6554
13F5	I	Muldoon	25	3N	21E	6300
14F13m	I	Niggerhead	26	2N	20E	5450
14F14a	I	Porcupine	30	4N	20E	8350
13F9A	I	Swede Peak	4	3N	21E	7500

FISH CREEK

13F10	I	Iron Mine Creek	32	3N	23E	6370
13F6	I	Telfer Ranch	12	2N	22E	6000

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR ANO	LONG.	

BOISE RIVER

15F4AP	I	Atlanta Summit	23	5N	10E	7500
15F2M	I	Bad Bear	35	7N	6E	5500
16F4	I	Bogus Basin	32	5N	3E	5360
16F5m	I	Bogus Basin Road	36	5N	2E	4830
14F10A	I	Couch Summit	9	2N	14E	6950
15F10a	I	Danskin	17	1N	7E	5650
16F1	I	Deadman Gulch	29	7N	4E	5600
15E9AP	I	Jackson Peak	7	8N	9E	7000
15F1MP	I	Moore's Creek Summit	19	7N	7E	6100
15F6P	I	Prairie	13	2N	7E	4900
15F3A	I	Road Creek	5	5N	8E	5550
15F5AP	I	Trinity Mountain	7	3N	9E	7400
15F11a	I	Willow Creek Cabin	26	1N	6E	4710

CANYON CREEK

15F7	I	Bennett Mountain	7	2S	9E	6650
15F8	I	Dixie Hill	13	2S	8E	5230
15F12a	I	Little Camas Flat	21	1S	9E	4950
15F13a	I	Long Tom	19	1S	8E	4550

PAYETTE RIVER

16F2MP	I	Bogus Basin	16	5N	3E	6120
15E8	I	Cozy Cove	19	11N	7E	5900
15E3	I	Crawford Ranger Station	21	14N	4E	4800
15E10	I	Deadwood Airstrip	8	11N	7E	5440
15E7	I	Deadwood Dam	8	11N	7E	5290
15E4A	I	Deadwood Summit	23	14N	7E	7000
16E7a	I	Greenfield Flat	1	13N	2E	7370
16E4	I	High Valley Summit	9	10N	2E	5170
15E1	I	Lake Fork	3	18N	4E	6000
16E1	I	Rock Flat Summit	1	18N	2E	5200
15E5A	I	Silver Creek Ridge	24	12N	5E	5700
15D2A	I	Squaw Meadows	5	21N	4E	5800
16E3	I	Tripod Summit	17	11N	3E	5200

WEISER RIVER

16D1P	I	Boulder Creek	15	20N	1W	5500
16E6a	I	Mica Ridge	15	15N	2E	6800
16E2	I	Placer Creek	15 & 16	17N	3W	6000
16E5a	I	Squaw Flat	32	17N	2E	6230

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7 m	SOIL MOISTURE STATION ONLY.
10J7 a	AERIAL MARKER ONLY.
10J7 p	STORAGE PRECIPITATION GAGE ONLY.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b

BOISE RIVER

Atlanta Summit	15F4	7500	4/27	112	40.4	27.1	35.9*
Bad Bear	15F2	5500	5/1	18	6.2	0.0	--
#Bogus Basin	16F2	6120	5/1	69	26.5	10.6	22.3
#Bogus Basin (SP)	16F2	6120	5/1	--	26.5	--	--
Bogus Basin Road	16F4	5360	5/1	0	0.0	0.0	--
Couch Summit	14F10	6950	4/28	64	24.6	4.8	13.4*
#Dollarhide Summit (A)	14F8	8620	5/1	92	33.5	6.1	27.6*
Moore's Creek Summit	15F1	6100	5/1	90	35.0	22.0	30.0
#Soldier Rgr. Sta.	14F11	6100	4/28	0	0.0	0.0	--
Trinity Mountain (SP)	15F5	7400	5/1	--	53.5	31.6	44.5*
#Vienna Mine (A)	14F4	8900	5/1	105	41.0	17.6	38.3*

PAYETTE RIVER

#Big Creek Summit	15E2	6600	4/28	118	44.6	29.2	36.8*
Bogus Basin	16F2	6120	5/1	69	26.5	10.6	22.3
Bogus Basin (SP)	16F2	6120	5/1	--	26.5	--	--
#Brundage Mountain	16D6	7700	4/28	166	67.8	40.5	--
Cozy Cove	15E8	5900	4/26	39	13.8	6.2	9.3
Crawford Rgr. Sta.	15E3	4800	4/28	0	0.0	0.0	0.0*
Deadwood Airstrip	15E10	5440	4/25	33	11.6	2.7	4.6*
Deadwood Dam	15E7	5290	4/26	37	13.9	6.0	13.4
Deadwood Summit	15E4	7000	4/28	140	59.4	35.0	48.5*
Greenfield Flat (A)	16E7	7370	5/1	137	58.1	31.0	--
#Mica Ridge (A)	16E6	6800	5/1	111	41.8	23.6	--
Rock Flat Summit	16E1	5200	4/28	64	22.5	12.1	14.9*
#Squaw Flat (A)	16E5	6230	5/1	86	30.3	19.0	--
Squaw Meadow (A)	15D2	5800	5/1	112	44.8	29.2	37.9*

WEISER RIVER

Boulder Creek	16D1	5500	4/26	52	20.6	11.4	--
Mica Ridge (A)	16E6	6800	5/1	111	41.8	23.6	--
Squaw Flat (A)	16E5	6230	5/1	86	30.3	19.0	--

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
<u>LITTLE WOOD RIVER</u>							
Garfield R. S.	6554	36	5.2	4/28	4.8	5.3	5.0
<u>BIG WOOD RIVER</u>							
Galena	7300	48	10.1	4/29	6.2	8.9	--
Galena Summit	8795	48	5.8	4/29	1.5	2.4	1.8
<u>BOISE RIVER</u>							
Bogus Basin	6120	48	13.1	5/1	10.2	--	--
Bogus Basin Road	4830	48	7.1	5/1	5.8	5.5	6.0*
Moore's Creek Summit	6100	60	8.8	5/1	7.5	7.7	--
*April 1 measurement.							

(b) 1948-62, 15 year period. # Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b

MIDDLE SNAKE RIVER BASIN - SOUTHSIDERAFT RIVER

Boy Scout Camp (A)	13G2	7600	6/2	52	18.3	4.5	--
Clear Creek Meadows (A)	13H2	9050	5/2	107	37.6	24.7	--
Howell Canyon	13G1	8000	4/29	70	24.6	8.5	--
Summit Springs (A)	12G9	6400	5/2	11	3.5	T	--

GOOSE CREEK

Badger Gulch	14G3	6660	5/1	37	11.8	T	--
Bostetter Rgr. Sta. (A)	14G1	7500	5/2	43	15.8	0.0	--
Vi Pont (A)	13H3	7670	5/2	46	16.9	0.0	--

SALMON FALLS CREEK

#Bear Creek (A)	15H1	7800	5/1	77	27.0	10.2	21.0*
Cedar Creek (A)	14G5	7000	5/1	21	8.0	0.0	2.1*
Deadline	14G4	6900	4/26	52	20.8	6.8	18.8*
Goat Creek (A)	15H13	8800	5/1	69	25.4	6.4	19.4*
#Hummingbird Spgs. (A)	15H15	8945	5/1	93	33.0	13.2	25.1*
Magic Mountain	14G2	6700	4/26	42	15.4	5.1	15.4*
#Pole Creek Rgr. Sta.	15H14	8330	4/27	68	24.2	12.4	22.2*
Red Point (A)	15H18	7940	5/1	51	18.0	0.0	--
Wilson Creek (A)	15G2	7500	5/1	53	18.8	0.0	--

BRUNEAU RIVER

Bear Creek (A)	15H1	7800	5/1	77	27.0	10.2	21.0*
Hummingbird Springs (A)	15H15	8945	5/1	93	33.0	13.2	25.1*
Pole Creek Rgr. Sta.	15H14	8330	4/27	68	24.2	12.4	22.2*
#Seventy-six Creek (A)	15H3	7100	5/1	23	8.0	0.0	--

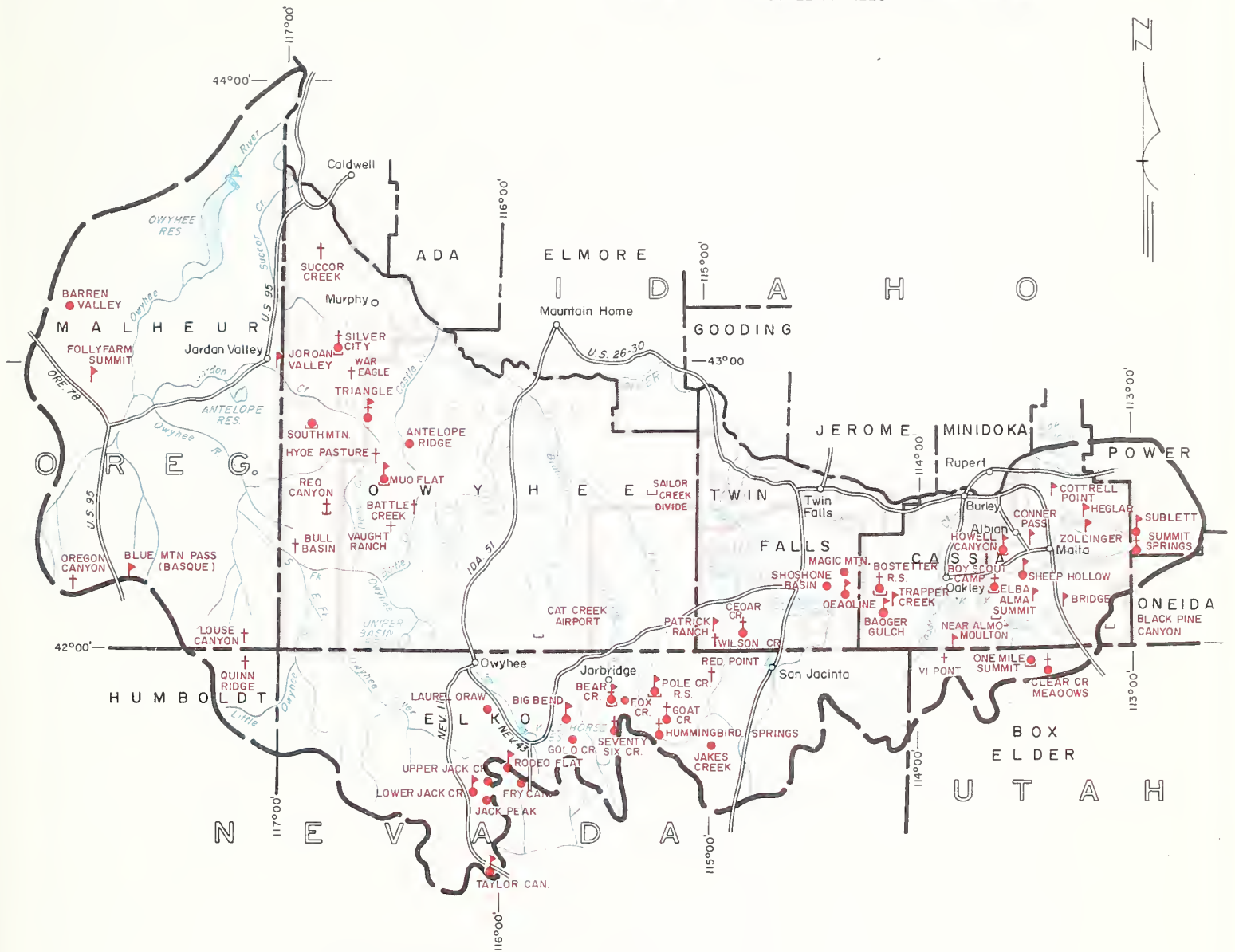
OWYHEE RIVER

#Bear Creek (A)	15H1	7800	5/1	77	27.0	10.2	21.0*
#Seventy-six Creek (A)	15H3	7100	5/1	23	8.0	0.0	--
Silver City	16F3	6400	5/2	47	17.9	0.0	6.1*
South Mountain	16G1	6340	4/29	44	14.2	--	3.8*

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

MIDDLE SNAKE RIVER BASIN SOUTHSIDE

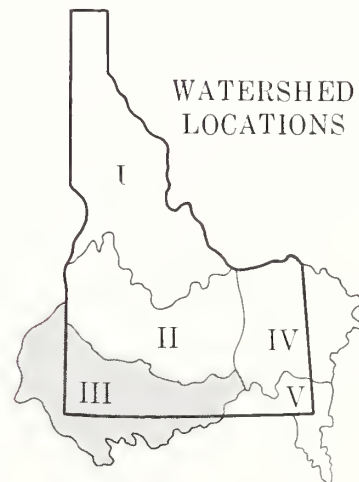
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SCALE IN MILES



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Aerial Snow Depth Gage
- Soil Moisture Station
- Temperature Gage
- Precipitation Gage
- Radio Telemetry

WATERSHED LOCATIONS



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR ANO	LONG.	
MIDDLE SNAKE RIVER BASIN						
SOUTHSIDE						
RAFT RIVER						
13G15p	I	Black Pine Canyon	28	15S	29E	7100
13G2AP	I	Boy Scout Camp	8	14S	24E	7600
13H2A	U	Clear Creek Meadows	26	14N	14W	9050
13G6m	I	Conner Pass	35	12S	25E	5700
13G7m	I	Cottrell Point	24	10S	25E	4490
13G10m	I	Elba-Almo Summit	29	14S	25E	5690
13G8m	I	Helgar	19	11S	28E	4590
13G1MP	I	Howell Canyon	2	13S	24E	8000
13G12m	I	Moulton	27	16S	23E	5950
13G14p	I	Near Almo	35	15S	24E	5200
13H1P	U	One Mile Summit	19	14N	14W	7330
13G5M	I	Sheep Hollow	4	14S	24E	6200
13G3M	I	Sublett	8	12S	30E	6000
13G4A	I	Summit Springs	15	13S	30E	6400
13G9m	I	Zollinger	2	13S	28E	5000

GOOSE - TRAPPER CREEK						
14G3M	I	Badger Gulch	24	15S	19E	6660
14G1AP	I	Bostetter Ranger Station	35	14S	19E	7500
14G7m	I	Trapper Creek	2	15S	20E	5300
13H3a	U	Vi Pont	17	14N	17W	7670

SALMON FALLS CREEK						
14G5A	I	Cedar Creek	25	15S	13E	7000
14G4M	I	Deadline	25	14S	18E	6900
15H13A	N	Goat Creek	31	46N	60E	8800
14H1	N	Jakes Creek	6	42N	62E	7000
14G2	I	Magic Mountain	14	14S	18E	6700
15G1m	I	Patrick Ranch	23	15S	12E	5720
15H18a	N	Red Point	15	47N	61E	7940
14G6	I	Shoshone Basin	24	14S	17E	5740
15G2a	I	Wilson Creek	24	16S	12E	7500

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR ANO	LONG.	
BRUNEAU RIVER						
15H1MAP	N	Bear Creek	31	46N	58E	7800
15G3p	I	Cat Creek Airport	9	16S	6E	5700
15H2	N	Fox Creek	33	46N	58E	6800
15H15A	N	Hummingbird Springs	6	45N	60E	8945
15H14MP	N	Pole Creek Ranger Station	13	46N	59E	8330
15G4p	I	Sailor Creek Divide	21	10S	10E	4350

OWYHEE RIVER						
16G6	I	Antelope Ridge	20	8S	1E	5900
18F5	O	Barren Valley	26	17S	38E	4200
16G9a	I	Battle Creek	10	11S	1E	5700
15H4M	N	Big Bend	30	45N	56E	6700
17G2m	O	Blue Mountain Pass (Basque)	4	38S	42E	5290
16G10a	I	Bull Basin	19	12S	5W	5600
18G3m	O	Folly Farm Summit	8	30S	38E	4450
15H7	N	Fry Canyon	31	43N	54E	6700
15H5	N	Gold Creek	31	45N	56E	6600
16G5a	I	Hyde Pasture	SE $\frac{1}{4}$ 31	8S	2W	5800
16H4	N	Jacks Peak	28	42N	53E	8420
17G3m	O	Jordan Valley	2	30S	46E	4390
16H5	N	Laurel Draw	20	45N	53E	6700
17G4a	O	Louse Canyon	27	40S	44E	6440
16H1M	N	Lower Jack Creek	18	42N	53E	6800
16G7MP	I	Mud Flat	34	9S	2W	5500
17G5a	O	Oregon Canyon	9	40S	40E	6950
17H6a	N	Quinn Ridge	9	47N	41E	6300
16G11ap	I	Red Canyon	32	11S	4W	6650
15H6M	N	Rodeo Flat	36	43N	53E	6800
16F3AP	I	Silver City	6	5S	3W	6400
16G1P	I	South Mountain	35	7S	5W	6340
16F6a	I	Succor Creek	25	3S	5W	6100
15H9M	N	Taylor Canyon	35	39N	53E	6200
16G4MA	I	Triangle	N $\frac{1}{2}$ 35	7S	3W	5150
16H2	N	Upper Creek	9	42N	53E	7250
16G12a	I	Vaught Ranch	10	11S	1W	5950
16G13a	I	War Eagle	20	5S	3W	7700

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7 m	SOIL MOISTURE STATION ONLY.
10J7 a	AERIAL MARKER ONLY.
10J7 p	STORAGE PRECIPITATION GAGE ONLY.

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
<u>RAFT RIVER</u>							
Conner Pass	5700	36	9.8	5/4	8.8	8.7	10.3
Howell Canyon	8000	48	11.5	4/28	5.7	10.6	6.0
Sublett	6000	36	7.0	4/2	6.0*	6.5*	7.5*
<u>GOOSE CREEK</u>							
Badger Gulch	6660	36	7.0	5/1	5.6	5.5*	6.9
<u>SALMON FALLS CREEK</u>							
Deadline	6900	36	7.4	4/26	7.9	7.3	8.2
Patrick Ranch	5720	36	7.7	4/27	6.0	4.9	--
Pole Creek R. S.	8330	48	12.7	4/27	6.5	--	8.0*
<u>BRUNEAU RIVER</u>							
Bear Creek	7800	72	16.9	3/30	10.1*	12.1*	14.4*
<u>OWYHEE RIVER</u>							
Mud Flat	5500	48	12.8	3/28	14.4*	14.4	14.2
* April 1 measurement.							

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b

UPPER SNAKE RIVER BASINHENRYS FORK RIVER

Big Springs	11E9	6500	4/28	62	25.5	9.2	--
Black Moose	11E19	8125	5/6	117	44.0	--	--
Grassy Lake	10E15	7230	4/30	95	37.8	26.4	33.1*
Island Park	11E10	6315	4/28	45	17.3	2.9	--
Latham Springs	11E16	7650	5/6	107	43.0	--	--
Lucky Dog	11E14	6900	5/6	80	33.0	--	--
Old Road	11E15	7250	5/6	91	40.0	--	--
Poacher's Cabin	11E17	8000	5/6	109	44.0	--	--
Valley View	11E8	6500	4/28	62	25.6	7.8	--

TETON RIVER

Darby Canyon (A)	10F21	8250	4/28	73	28.2	18.2	--
Pine Creek Pass	11F2	6750	4/28	40	16.6	0.0	--
State Line	11F1	6400	4/28	40	16.0	0.0	7.9*
Teton Pass	10F13	8500	4/28	88	34.0	25.2	37.8*

BLACKFOOT RIVER

Slug Creek Divide	11G5	7225	5/4	53	21.6	--	--
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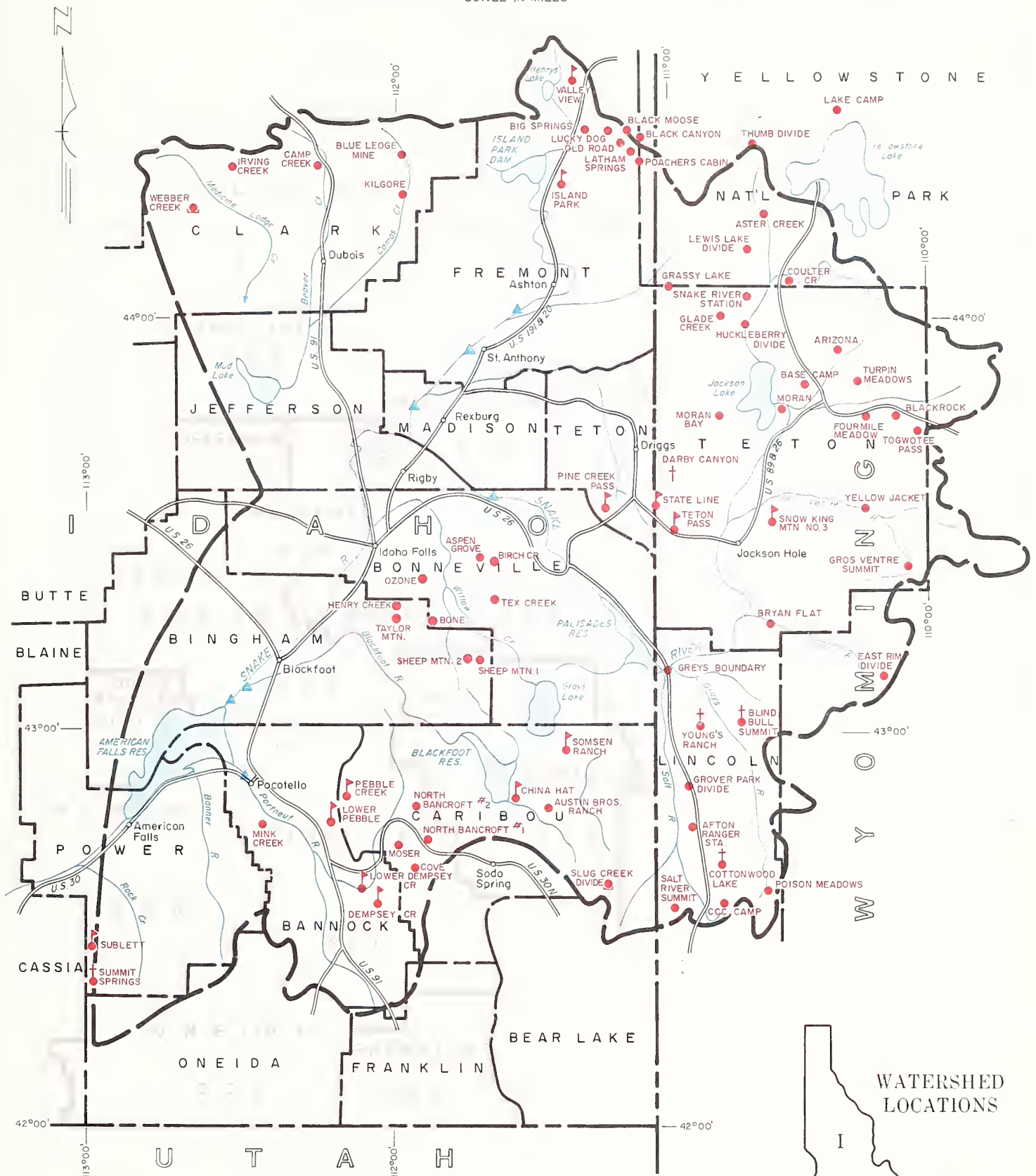
SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
<u>HENRYS FORK RIVER</u>							
Island Park	6315	48	9.9	4/28	10.0	10.0	10.4
Valley View	6500	48	13.3	4/28	9.7	8.7	13.2
<u>TETON RIVER</u>							
Pine Creek Pass	6750	48	13.3	4/28	7.6	12.6	14.0
State Line	6400	48	14.8	4/28	10.8	14.7	15.1
<u>PORTNEUF RIVER</u>							
Lower Pebble	5800	36	7.6	3/30	6.0*	8.3*	6.6*
Pebble Creek	6550	48	7.2	3/30	3.6*	6.4*	5.6*
* April 1 measurement.							

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

UPPER SNAKE RIVER BASIN

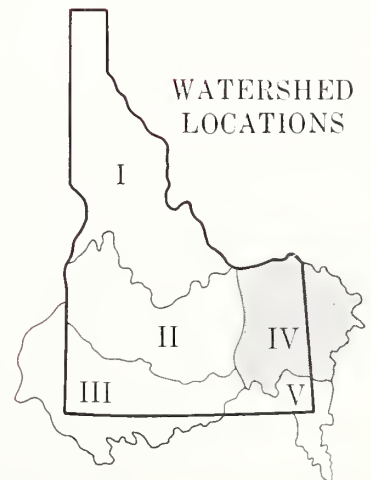
25 0 25 50
SCALE IN MILES



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- † Aerial Snow Depth Gage
- P Soil Moisture Station
- O Snow Pressure Pillow
- q Temperature Gage
- L Precipitation Gage
- ⚡ Radio Telemetry

WATERSHED LOCATIONS



INDEX to SNOW COURSES

NU.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.	NU.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR AND	LONG.					LAT.	OR AND	LONG.	
UPPER SNAKE RIVER BASIN							TETON RIVER						
SNAKE RIVER - WYOMING							10F21a	Wy	Darby Canyon	28	43N	118W	8250
10G4	Wy	Afton Ranger Station	30	32N	118W	6200	11F2M	I	Pine Creek Pass	24	3N	44E	6750
10F1	Wy	Arizona	3	46N	115W	6850	11F1M	I	State Line	32	3N	46E	6400
10E8	Wy	Aster Creek	44° 17'		110° 38'	7700	10F13M	Wy	Teton Pass	24	41N	118W	8500
10F2	Wy	Base Camp	20	46N	113W	6900	CAMAS - BEAVER CREEK						
10F7	Wy	Blackrock	4	44N	111W	8600	11E11	I	Blue Ledge Mine	27	13N	38E	6700
10G2A	Wy	Blind Bull	6	34N	115W	8750	12E3	I	Camp Creek	21	33N	36E	6800
10F14	Wy	Bryan Flat	9	38N	115W	6250	11E12	I	Kilgore	6	12N	39E	6200
10E3	Wy	Canyon	44° 44'		110° 30'	7750	MEDICINE LODGE CREEK						
10G7	Wy	CCC Camp	9	29N	118W	7500	12E4	I	Irving Creek	20	13N	33E	7035
10G5A	Wy	Cottonwood Lake	25	31N	118W	7500	12E5	I	Webber Creek	23	12N	32E	6700
10E10	Wy	Coulter Creek	44° 09'		110° 33'	7600	WILLOW CREEK						
10F17	Wy	East Rim Divide	32	37N	111W	7950	11F10	I	Aspen Grove	35	2N	41E	6600
10F6	Wy	Four Mile Meadows	35	45N	112W	7770	11F3	I	Birch Creek	36	2N	41E	6800
10E13	Wy	Glade Creek	12	48N	116W	7200	11F8	I	Bone	29	1S	40E	6200
10F18	Wy	Greys Boundary	33	37N	118W	5800	11F4	I	Ozone	14	1N	39E	5800
10F19	Wy	Gros Ventre Summit	36	40N	111W	8750	11F9	I	Sheep Mountain I	33	2S	41E	6450
10G3	Wy	Grover Park Divide	27	33N	118W	7500	11F11	I	Sheep Mountain II	33	2S	41E	6510
10E14	Wy	Huckleberry Divide	32	48N	115W	7300	11F5	I	Tex Creek	6	1S	42E	6700
10E4	Wy	Lake Camp	44° 43'		110° 24'	7350	SAND CREEK						
10E9	Wy	Lewis Lake Divide	44° 13'		110° 40'	7900	11F6	I	Henry Creek	7	1S	39E	5650
10F4	Wy	Moran	8 & 17	45N	114W	6800	11F7	I	Taylor Mountain	19	1S	39E	6500
10F3	Wy	Moran Bay	14	45N	116W	6800	BLACKFOOT RIVER						
10E2	Wy	Norris Basin	44° 44'		110° 42'	7500	11G3	I	Austin Brothers Ranch	28	7S	43E	6450
10G6	Wy	Poison Meadows	29	30N	116W	8500	11G2M	I	China Hat	17	7S	42E	6300
10G8	Wy	Salt River Summit	32	29N	118W	7900	11G5	I	Slug Creek Divide	15	10S	44E	7225
10E12	Wy	Snake River Station	9	48N	115W	6780	11G1M	I	Somsen Ranch	25	5S	43E	7000
10F20	Wy	Snow King Mountain #3	4	40N	117W	7600	PORTNEUF RIVER						
10E5	Wy	Sylvan Pass	12	52N	110W	7100	11G25	I	Cove	21	9S	39E	5525
10E7	Wy	Thumb Divide	44° 22'		110° 35'	7900	12G5M	I	Dempsey Creek	17	10S	38E	6280
10F9	Wy	Togwotee Pass	29	44N	110W	9600	12G7M	I	Lower Dempsey	5	10S	38E	5210
10F5	Wy	Turpin Meadows	14	45N	112W	6930	12G6M	I	Lower Pebble	7	8S	38E	5800
10G1A	Wy	Young's Ranch	26	34N	116W	6530	12G1	I	Mink Creek	33	7S	34E	6300
HENRYS FORK RIVER							11G24	I	Moser	20	8S	39E	5950
11E9	I	Big Springs	34	14N	44E	6500	11G23	I	North Bancroft #1	15	8S	39E	5460
11E18	I	Black Canyon	11	13N	45E	7850	11G22	I	North Bancroft #2	27	7S	39E	5430
11E19	I	Black Moose	33	14N	45E	8125	12G2M	I	Pebble Creek	34	7S	37E	6550
10E15	Wy	Grassy Lake	6	48N	117W	7230							
11E10M	I	Island Park	29	13N	43E	6315							
11E16	I	Latham Springs	9	13N	45E	7650							
11E14	I	Lucky Dog	2	13N	45E	6900							
11E15	I	Old Road	12	13N	44E	7250							
11E17	I	Poacher's Cabin	11	13N	45E	8000							
11E8M	I	Valley View	7	15N	44E	6500							

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7 m	SOIL MOISTURE STATION ONLY.
10J7 a	AERIAL MARKER ONLY.
10J7 p	STORAGE PRECIPITATION GAGE ONLY.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
						LAST YEAR	AVERAGE ^b

GREAT BASINBEAR RIVER

Emigrant Summit	11G6	7350	4/28	71	30.2	12.8	--
-----------------	------	------	------	----	------	------	----

Montpelier Creek

Giveout	11G16	6840	4/28	29	12.1	--	--
Little Beaver	11G20	6970	4/28	42	16.4	--	--
Whiskey Flat	11G21	6985	4/28	15	5.7	--	--

Mink Creek

Christensen Ranch	11G11	5600	4/26	10	3.9	0.0	0.0*
#Emigrant Summit	11G6	7350	4/28	71	30.2	12.8	--
Liberty Spring	11G13	8600	4/27	122	47.6	27.6	--
Strawberry Creek	11G9	5800	4/25	27	10.9	0.0	1.3*
Strawberry Mink Divide	11G10	6800	4/25	65	28.6	4.6	13.3*

Cub River

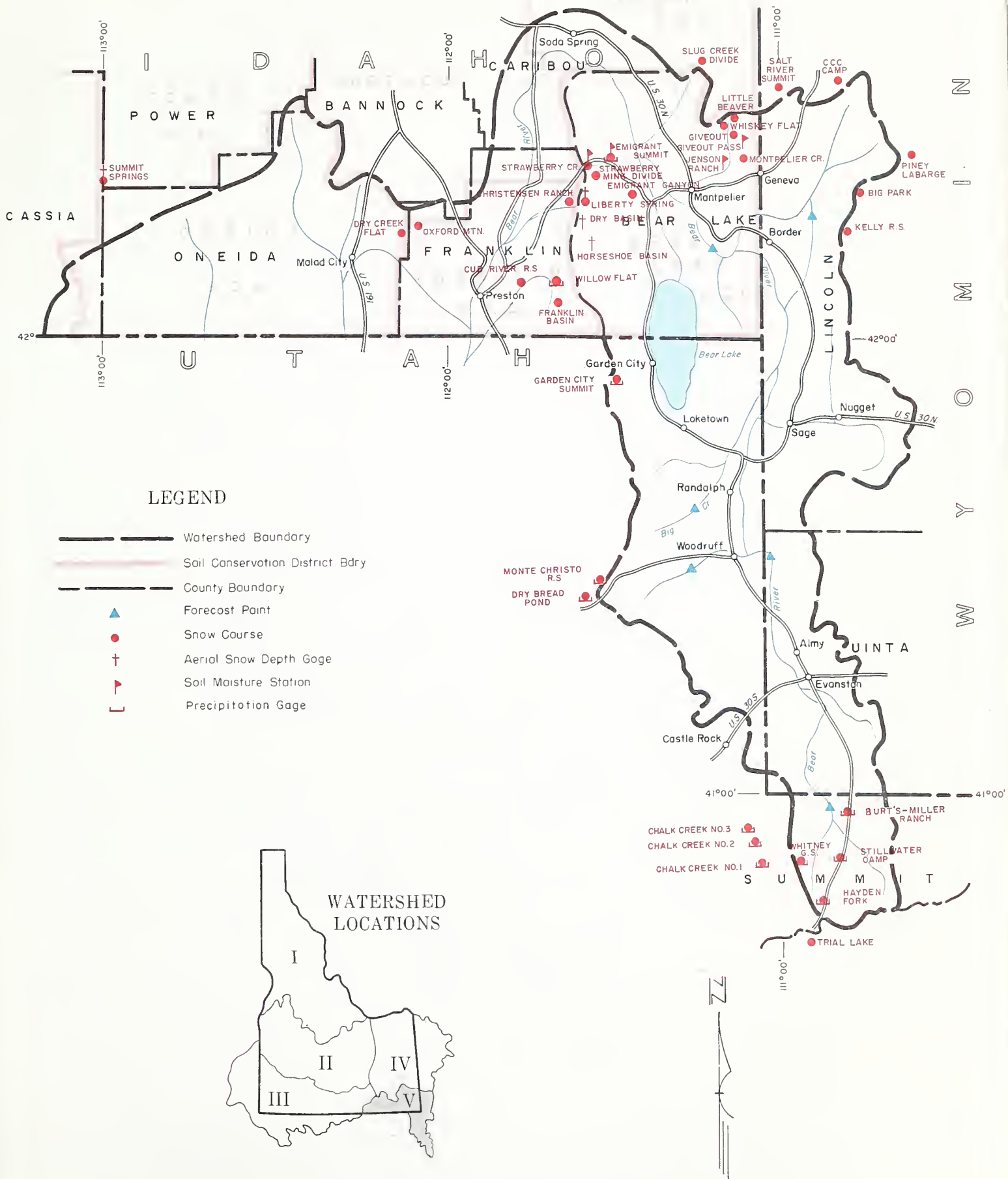
Cub River R. S.	11G12	5400	4/26	0	0.0	0.0	0.0*
Willow Flat	11G4	6100	4/26	26	10.5	0.0	2.4*

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
<u>BEAR RIVER</u>							
Emigrant Summit	7350	36	8.2	4/28	4.1	6.6	6.5
Strawberry Creek	5800	48	12.7	4/28	12.8	12.2	12.2
<u>Montpelier Creek</u>							
Jenson Ranch	6580	48	18.7	4/28	16.7	11.3*	17.1*
* April 1 measurement.							

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

GREAT BASIN



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR ANO	LONG.	

GREAT BASIN

BEAR RIVER

10G11	Wy	Big Park	7	27N	117W	8700
11H13MP	U	Dry Bread Pond	19	8N	4E	8230
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6500
11H7P	U	Garden City Summit	35	14N	4E	7600
10J6	U	Burt's-Miller Ranch	19	3N	10E	7900
10J7	U	Hayden Fork	1	1S	9E	9300
10G12	Wy	Kelly Ranger Station	13	26N	118W	8200
11H12P	U	Monte Cristo R. S.	3	8N	4E	8960
10G10	Wy	Piney LaBarge	19	29N	114W	8820
10J17P	U	Stillwater Camp	32	2N	10E	8550
10J28P	U	Whitney G.S.	4	1N	9E	9300

MONTPELIER CREEK

11G16	I	Giveout	35	11S	45E	6840
11G17m	I	Giveout Pass	2	12S	45E	7025
11G19m	I	Jenson Ranch	15	12S	45E	6580
11G20	I	Little Beaver	26	11S	45E	6970
11G18	I	Montpelier Creek	22	12S	45E	6570
11G21	I	Whiskey Flat	26	11S	45E	6985

MINK CREEK

11G11	I	Christensen Ranch	27	13S	41E	5600
11G14a	I	Dry Basin	30	13S	42E	7900
11G6MP	I	Emigrant Summit	21	12S	42E	7350
11G15a	I	Horseshoe Basin	31	13S	42E	8000
11G13A	I	Liberty Spring	7	13S	42E	8600
11G9M	I	Strawberry Creek	9	13S	41E	5800
11G10	I	Strawberry Mink Divide	14	13S	41E	6800

CUB RIVER

11G12	I	Cub River Ranger Station	5	15S	41E	5400
11G8	I	Franklin Basin	1	16S	41E	8000
11G4P	I	Willow Flat	2	15S	41E	6100

MALAD RIVER

12G4	I	Dry Creek Flat	31	13S	37E	6350
12G3	I	Oxford Mountain	32	13S	37E	6800

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7 m	SOIL MOISTURE STATION ONLY.
10J7 a	AERIAL MARKER ONLY.
10J7 p	STORAGE PRECIPITATION GAGE ONLY.

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

Canada:

Department of Lands, Forests, and
Water Resources, British Columbia
Department of Resources and Development,
Water Resources Division

States:

Idaho State Reclamation Engineer
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers
U. S. Department of Agriculture
Forest Service
Agricultural Research Service
U. S. Department of Commerce
Environmental Sciences Service Administration,
Weather Bureau
U. S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
Indian Service
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Boise Project Board of Control
Little Wood River Irrigation District
Jordan Valley Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Twin Lakes Irrigation Company
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

PRIVATE CORPORATIONS

Amalgamated Sugar Company

*Other organizations and individuals furnish valuable information for
snow survey reports. Their cooperation is gratefully acknowledged.*

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